

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

SDA Form: 2

8-15-95

GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM protein - protein search, using sw model

Run on: November 16, 2001, 15:44:13 ; Search time 267.62 Seconds
(without alignments)
17.638 Million cell updates/sec

Title: US-09-011-797-2
Perfect score: 86
Sequence: 1 FGGFTGARKSARKLANQ 17

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 3148936 seqs, 277657034 residues

Total number of hits satisfying chosen parameters: 3148936

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending Patents_AA Main:*

- 1: /cgn2_6/ptodata/2/paa/PCTUS_COMB.pep:*
- 2: /cgn2_6/ptodata/2/paa/US06_COMB.pep:*
- 3: /cgn2_6/ptodata/2/paa/US07_COMB.pep:*
- 4: /cgn2_6/ptodata/2/paa/US080_COMB.pep:*
- 5: /cgn2_6/ptodata/2/paa/US081_COMB.pep:*
- 6: /cgn2_6/ptodata/2/paa/US082_COMB.pep:*
- 7: /cgn2_6/ptodata/2/paa/US083_COMB.pep:*
- 8: /cgn2_6/ptodata/2/paa/US084_COMB.pep:*
- 9: /cgn2_6/ptodata/2/paa/US085_COMB.pep:*
- 10: /cgn2_6/ptodata/2/paa/US086_COMB.pep:*
- 11: /cgn2_6/ptodata/2/paa/US087_COMB.pep:*
- 12: /cgn2_6/ptodata/2/paa/US088_COMB.pep:*
- 13: /cgn2_6/ptodata/2/paa/US089_COMB.pep:*
- 14: /cgn2_6/ptodata/2/paa/US090_COMB.pep:*
- 15: /cgn2_6/ptodata/2/paa/US091_COMB.pep:*
- 16: /cgn2_6/ptodata/2/paa/US092_COMB.pep:*
- 17: /cgn2_6/ptodata/2/paa/US093_COMB.pep:*
- 18: /cgn2_6/ptodata/2/paa/US094_COMB.pep:*
- 19: /cgn2_6/ptodata/2/paa/US095_COMB.pep:*
- 20: /cgn2_6/ptodata/2/paa/US096_COMB.pep:*
- 21: /cgn2_6/ptodata/2/paa/US097_COMB.pep:*
- 22: /cgn2_6/ptodata/2/paa/US098_COMB.pep:*
- 23: /cgn2_6/ptodata/2/paa/US099_COMB.pep:*
- 24: /cgn2_6/ptodata/2/paa/US60_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,

and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	%		Query Match Length	DB	ID	Description
	Score	Match				
1	86	100.0	17	9	US-08-514-451-5	Sequence 5, Appli
2	86	100.0	17	9	US-08-553-058A-5	Sequence 5, Appli
3	86	100.0	17	12	US-08-868-355-1	Sequence 1, Appli
4	86	100.0	17	13	US-08-927-328-1	Sequence 1, Appli
5	86	100.0	17	14	US-09-011-797-2	Sequence 2, Appli
6	86	100.0	17	14	US-09-048-916-5	Sequence 5, Appli
7	86	100.0	17	14	US-09-048-916-5	Sequence 5, Appli
8	86	100.0	17	14	US-09-048-916B-5	Sequence 5, Appli
9	86	100.0	17	15	US-09-114-620-1	Sequence 1, Appli
10	86	100.0	17	15	US-09-170-919-5	Sequence 5, Appli
11	86	100.0	17	17	US-09-341-590-39	Sequence 39, Appl
12	86	100.0	17	20	US-09-657-276-919	Sequence 919, App
13	86	100.0	17	20	US-09-657-276-926	Sequence 926, App
14	86	100.0	134	24	US-60-160-202-4306	Sequence 4306, Ap
15	86	100.0	134	24	US-60-160-203-6127	Sequence 6127, Ap
16	86	100.0	139	24	US-60-160-203-5358	Sequence 5358, Ap
17	86	100.0	155	24	US-60-160-202-3958	Sequence 3958, Ap
18	86	100.0	188	1	PCT-US01-18569-3681	Sequence 3681, Ap
19	83	96.5	17	13	US-08-927-328-4	Sequence 4, Appli
20	83	96.5	17	13	US-08-927-328-6	Sequence 6, Appli
21	83	96.5	17	13	US-08-927-328-8	Sequence 8, Appli
22	81	94.2	17	9	US-08-514-451-6	Sequence 6, Appli
23	81	94.2	17	9	US-08-553-058A-6	Sequence 6, Appli
24	81	94.2	17	14	US-09-048-916-6	Sequence 6, Appli
25	81	94.2	17	14	US-09-048-916-6	Sequence 6, Appli
26	81	94.2	17	14	US-09-048-916B-6	Sequence 6, Appli
27	81	94.2	17	15	US-09-114-620-4	Sequence 4, Appli
28	81	94.2	17	15	US-09-170-919-6	Sequence 6, Appli
29	80	93.0	16	13	US-08-927-328-3	Sequence 3, Appli
30	80	93.0	17	13	US-08-927-328-7	Sequence 7, Appli
31	74	86.0	17	13	US-08-927-328-5	Sequence 5, Appli
32	68	79.1	15	13	US-08-927-328-20	Sequence 20, Appl
33	68	79.1	16	13	US-08-927-328-17	Sequence 17, Appl
34	64	74.4	17	13	US-08-927-328-13	Sequence 13, Appl
35	63	73.3	14	13	US-08-927-328-30	Sequence 30, Appl
36	62	72.1	15	13	US-08-927-328-12	Sequence 12, Appl
37	62	72.1	16	13	US-08-927-328-11	Sequence 11, Appl
38	62	72.1	16	13	US-08-927-328-15	Sequence 15, Appl
39	61	70.9	16	13	US-08-927-328-19	Sequence 19, Appl
40	57	66.3	15	13	US-08-927-328-9	Sequence 9, Appli
41	57	66.3	15	13	US-08-927-328-14	Sequence 14, Appl
42	57	66.3	16	13	US-08-927-328-10	Sequence 10, Appl
43	57	66.3	16	13	US-08-927-328-16	Sequence 16, Appl
44	57	66.3	16	13	US-08-927-328-18	Sequence 18, Appl
45	44.5	51.7	319	15	US-09-198-452A-173	Sequence 173, App

ALIGNMENTS

RESULT 1
 US-08-514-451-5
 ; Sequence 5, Application US/08514451
 ; GENERAL INFORMATION:
 ; APPLICANT: Bunzow, James R
 ; APPLICANT: Grandy, David K
 ; APPLICANT: Civelli, Olivier
 ; APPLICANT: Reinscheid, Rainer K
 ; APPLICANT: Nothacker, Hans-Peter
 ; APPLICANT: Monsma, Frederick J
 ; TITLE OF INVENTION: A Novel Mammalian Methadone-Specific
 ; TITLE OF INVENTION: Opioid Receptor Gene and Uses
 ; NUMBER OF SEQUENCES: 6
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Banner & Allegretti, Ltd.
 ; STREET: 10 South Wacker Drive, Suite 3000
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60606
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/514,451
 ; FILING DATE: 11-AUG-1995
 ; CLASSIFICATION: 530
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Noonan, Kevin E
 ; REGISTRATION NUMBER: 35,303
 ; REFERENCE/DOCKET NUMBER: 93,311-A
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312-715-1000
 ; TELEFAX: 312-715-1234
 ; TELEX: 910-221-5317
 ; INFORMATION FOR SEQ ID NO: 5:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 17 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 US-08-514-451-5

Query Match 100.0%; Score 86; DB 9; Length 17;
 Best Local Similarity 100.0%; Pred. No. 7.5e-07;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGGFTGARKSARKLANQ 17
 |||||
 Db 1 FGGFTGARKSARKLANQ 17

RESULT 2
 US-08-553-058A-5

```

; Sequence 5, Application US/08553058A
; GENERAL INFORMATION:
;   APPLICANT:  Grisel, Judith E.
;   APPLICANT:  Grandy, David K.
;   APPLICANT:  Mogil, Jeffrey S.
;   TITLE OF INVENTION:  Opioid Antagonists and Methods of Their Use
;   NUMBER OF SEQUENCES:  10
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  Klarquist Sparkman Campbell Leigh
;     ADDRESSEE:  & Whinston LLP
;     STREET:  121 S.W. Salmon, Suite 1600
;     CITY:  Portland
;     STATE:  Oregon
;     COUNTRY:  USA
;     ZIP:  97204
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Floppy Disk
;     COMPUTER:  IBM PC compatible
;     OPERATING SYSTEM:  PC-DOS/MS-DOS
;     SOFTWARE:  PatentIn Release #1.0, Version WP5.1 ASCII text
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  US/08/553,058A
;     FILING DATE:  11/13/95
;     CLASSIFICATION:  514
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:
;     FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  William D. Noonan, M.D.
;     REGISTRATION NUMBER:  30,878
;     REFERENCE/DOCKET NUMBER:  899-40006/WDN
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  (503) 226-7391
;     TELEFAX:  (503) 228-9446
;   INFORMATION FOR SEQ ID NO:  5:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  17 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:
;       DESCRIPTION:  peptide
US-08-553-058A-5

```

```

Query Match          100.0%;  Score 86;  DB 9;  Length 17;
Best Local Similarity 100.0%;  Pred. No. 7.5e-07;
Matches   17;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

```

```

Qy      1 FGGFTGARKSARKLANQ 17
        |||||
Db      1 FGGFTGARKSARKLANQ 17

```

```

RESULT    3
US-08-868-355-1
; Sequence 1, Application US/08868355
; GENERAL INFORMATION:

```

```

; APPLICANT: Civelli, Olivier
; APPLICANT: Martin, James R.
; APPLICANT: Monsma, Frederick
; APPLICANT: Moreau, Jean-Luc
; APPLICANT: Nothacker, Hans-Peter
; APPLICANT: Reinscheid, Rainer
; TITLE OF INVENTION: MODULATION OF LC132 (OPIOID-LIKE)
; TITLE OF INVENTION: RECEPTOR FUNCTION
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lewis J. Kreisler
; STREET: 340 Kingsland Street
; CITY: Nutley
; STATE: New Jersey
; COUNTRY: U.S.A.
; ZIP: 07110-1199
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/868,355
; FILING DATE:
; CLASSIFICATION: -
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 96109462.0
; FILING DATE: 13-JUN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Kreisler, Lewis J.
; REGISTRATION NUMBER: 38,522
; REFERENCE/DOCKET NUMBER: RAN 4108/361
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (201) 235-4387
; TELEFAX: (201) 235-2363
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
US-08-868-355-1

```

```

Query Match          100.0%;  Score 86;  DB 12;  Length 17;
Best Local Similarity 100.0%;  Pred. No. 7.5e-07;
Matches 17;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

```

```

Qy      1 FGGFTGARKSARKLANQ 17
        |||||
Db      1 FGGFTGARKSARKLANQ 17

```

```

RESULT 4
US-08-927-328-1
; Sequence 1, Application US/08927328

```

```

; GENERAL INFORMATION:
;   APPLICANT:  HOWARD LIPPTON
;   TITLE OF INVENTION:  DIURETIC AND ANTINATRIURETIC RESPONSES
;   TITLE OF INVENTION:  PRODUCED BY ANALOGS OF NOCICEPTIN
;   NUMBER OF SEQUENCES:  31
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  Pravel, Hewitt, Kimball & Krieger
;     STREET:  1177 West Loop South, 10th Floor
;     CITY:  Houston
;     STATE:  TX
;     COUNTRY:  USA
;     ZIP:  77027-9095
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Floppy disk
;     COMPUTER:  IBM PC compatible
;     OPERATING SYSTEM:  PC-DOS/MS-DOS
;     SOFTWARE:  PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  US/08/927,328
;     FILING DATE:  September 11, 1997
;     CLASSIFICATION:  514
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:
;     FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  Krieger, Paul E.
;     REGISTRATION NUMBER:  25,886
;     REFERENCE/DOCKET NUMBER:  42740/1
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  713-850-0909
;     TELEFAX:  713-850-0165
;   INFORMATION FOR SEQ ID NO:  1:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  17 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  SINGLE
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  Peptide
US-08-927-328-1

```

```

Query Match          100.0%;  Score 86;  DB 13;  Length 17;
Best Local Similarity 100.0%;  Pred. No. 7.5e-07;
Matches  17;  Conservative  0;  Mismatches  0;  Indels  0;  Gaps  0;

```

```

Qy      1 FGGFTGARKSARKLANQ 17
        |||||||||||||
Db      1 FGGFTGARKSARKLANQ 17

```

```

RESULT  5
US-09-011-797-2
; Sequence 2, Application US/09011797
; GENERAL INFORMATION:
;   APPLICANT:  PARMENTIER, MARC
;   APPLICANT:  VASSART, GILBERT
;   APPLICANT:  MEUNIER, JEAN-CLAUDE

```

```

; APPLICANT: MOLLEREAU, CATHERINE
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING PEPTIDES
; TITLE OF INVENTION: HAVING PRONOCICEPTIVE PROPERTIES
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe, Martens, Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/011,797
; FILING DATE:
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Altman, Daniel E
; REGISTRATION NUMBER: 34,115
; REFERENCE/DOCKET NUMBER: VANMA72.001APC
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 714-760-0404
; TELEFAX: 714-760-9502
; TELEX:
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-011-797-2

```

```

Query Match          100.0%; Score 86; DB 14; Length 17;
Best Local Similarity 100.0%; Pred. No. 7.5e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 FGGFTGARKSARKLANQ 17
        |||||||||||||
Db      1 FGGFTGARKSARKLANQ 17

```

```

RESULT 6
US-09-048-916-5
; Sequence 5, Application US/09048916
; GENERAL INFORMATION:
; APPLICANT: Grisel, Judith E.
; APPLICANT: Grandy, David K.
; APPLICANT: Mogil, Jeffrey S.
; APPLICANT: Bunzow, James R.
; APPLICANT: Civelli, Olivier
; APPLICANT: Reinscheid, Rainer Klaus

```



```

; APPLICANT: Nothacker, Hans-Peter
; APPLICANT: Monsma, Frederick James
; TITLE OF INVENTION: Opioid Antagonists and Methods of
; TITLE OF INVENTION: Their Use
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Klarquist Sparkman Campbell Leigh
; ADDRESSEE: & Whinston LLP
; STREET: 121 S.W. Salmon, Suite 1600
; CITY: Portland
; STATE: Oregon
; COUNTRY: USA
; ZIP: 97204
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version
; SOFTWARE: WP5.1 ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/048,916
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/533,058
; FILING DATE: 3 November 1995
; APPLICATION NUMBER: 08/514,541
; FILING DATE: 11 August 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Richard J. Polley, Esq.
; REGISTRATION NUMBER: 28,107
; REFERENCE/DOCKET NUMBER: 899-45532/RJP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (503) 226-7391
; TELEFAX: (503) 228-9446
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE:
; DESCRIPTION: peptide
US-09-048-916-5

```

```

Query Match          100.0%;  Score 86;  DB 14;  Length 17;
Best Local Similarity 100.0%;  Pred. No. 7.5e-07;
Matches 17;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

```

```

QY      1 FGGFTGARKSARKLANQ 17
        |||||
Db      1 FGGFTGARKSARKLANQ 17

```

```

RESULT 7
US-09-048-916-5
; Sequence 5, Application US/09048916A

```

```
; GENERAL INFORMATION:
; APPLICANT: Grandy et al.
; TITLE OF INVENTION: Novel mammalian Opioid receptor ligand and uses
; FILE REFERENCE: 49888
; CURRENT APPLICATION NUMBER: US/09/048,916A
; CURRENT FILING DATE: 1999-03-26
; EARLIER APPLICATION NUMBER: 08/514,451
; EARLIER FILING DATE: 1995-08-11
; EARLIER APPLICATION NUMBER: 08/149,093
; EARLIER FILING DATE: 1993-11-08
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: peptide ligand
US-09-048-916-5
```

```
Query Match          100.0%;   Score 86;   DB 14;   Length 17;
Best Local Similarity 100.0%;   Pred. No. 7.5e-07;
Matches   17;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;
```

```
Qy      1 FGGFTGARKSARKLANQ 17
          |||||
Db      1 FGGFTGARKSARKLANQ 17
```

```
RESULT      8
US-09-048-916B-5
; Sequence 5, Application US/09048916B
; GENERAL INFORMATION:
; APPLICANT: Grandy et al.
; TITLE OF INVENTION: Method of screening a compound for binding to MSOR
; FILE REFERENCE: 49888
; CURRENT APPLICATION NUMBER: US/09/048,916B
; CURRENT FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 08/514,451
; PRIOR FILING DATE: 1995-08-11
; PRIOR APPLICATION NUMBER: 08/149,093
; PRIOR FILING DATE: 1993-11-08
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
;   LENGTH: 17
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: peptide ligand
US-09-048-916B-5
```

```
Query Match          100.0%;   Score 86;   DB 14;   Length 17;
Best Local Similarity 100.0%;   Pred. No. 7.5e-07;
Matches   17;   Conservative   0;   Mismatches   0;   Indels   0;   Gaps   0;
```

Qy 1 FGGFTGARKSARKLANQ 17
 |||||
Db 1 FGGFTGARKSARKLANQ 17

RESULT 9

US-09-114-620-1

; Sequence 1, Application US/09114620
; GENERAL INFORMATION:
; APPLICANT: Fink-Jensen, Anders
; APPLICANT: Olsen, Uffe Bang
; TITLE OF INVENTION: Use of Nociceptin And Nociceptin
; TITLE OF INVENTION: Analogues For The Manufacture Of A Pharmaceutical
; TITLE OF INVENTION: Composition For The Treatment Of Hot Flushes
; FILE REFERENCE: 5286.200-US
; CURRENT APPLICATION NUMBER: US/09/114,620
; CURRENT FILING DATE: 1998-07-13
; EARLIER APPLICATION NUMBER: 60/052,810
; EARLIER FILING DATE: 1997-07-17
; EARLIER APPLICATION NUMBER: 0866/97
; EARLIER FILING DATE: 1997-07-15
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Human
US-09-114-620-1

Query Match 100.0%; Score 86; DB 15; Length 17;
Best Local Similarity 100.0%; Pred. No. 7.5e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGGFTGARKSARKLANQ 17
 |||||
Db 1 FGGFTGARKSARKLANQ 17

RESULT 10

US-09-170-919-5

; Sequence 5, Application US/09170919
; GENERAL INFORMATION:
; APPLICANT: Grisel, Judith E.
; APPLICANT: Grandy, David K.
; APPLICANT: Mogil, Jeffrey S.
; TITLE OF INVENTION: Opioid Antagonists and Methods
; TITLE OF INVENTION: of Their Use
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Klarquist Sparkman Campbell
; ADDRESSEE: Leigh & Winston LLP
; STREET: 121 S.W. Salmon, Suite 1600
; CITY: Portland
; STATE: Oregon
; COUNTRY: USA

```

; ZIP: 97204
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Version WP6, ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/170,919
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/553,058
; FILING DATE: 11/3/95
; ATTORNEY/AGENT INFORMATION:
; NAME: William D. Noonan, M.D.
; REGISTRATION NUMBER: 30,878
; REFERENCE/DOCKET NUMBER: 899-40006/WDN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (503) 226-7391
; TELEFAX: (503) 228-9446
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE:
; DESCRIPTION: peptide
US-09-170-919-5

```

```

Query Match          100.0%; Score 86; DB 15; Length 17;
Best Local Similarity 100.0%; Pred. No. 7.5e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 FGGFTGARKSARKLANQ 17
        ||||||||||||||||
Db      1 FGGFTGARKSARKLANQ 17

```

```

RESULT 11
US-09-341-590-39
; Sequence 39, Application US/09341590
; GENERAL INFORMATION:
; APPLICANT: Larsen, Bjarne Due
; TITLE OF INVENTION: PHARMACOLOGICALLY ACTIVE PEPTIDE CONJUGATES HAVING A
; TITLE OF INVENTION: REDUCED TENDENCY TOWARDS ENZYMATIC HYDROLYSIS
; FILE REFERENCE: PPT-20479-US
; CURRENT APPLICATION NUMBER: US/09/341,590
; CURRENT FILING DATE: 1999-07-03
; PRIOR APPLICATION NUMBER: DK 0317/98
; PRIOR FILING DATE: 1998-03-09
; NUMBER OF SEQ ID NOS: 121
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 39
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Homo sapiens

```

; FEATURE:
; OTHER INFORMATION: nociceptin
US-09-341-590-39

Query Match 100.0%; Score 86; DB 17; Length 17;
Best Local Similarity 100.0%; Pred. No. 7.5e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGGFTGARKSARKLANQ 17
| | | | | | | | | | | | | | | |
Db 1 FGGFTGARKSARKLANQ 17

RESULT 12

US-09-657-276-919
; Sequence 919, Application US/09657276
; GENERAL INFORMATION:
; APPLICANT: Conjuchem, Inc.
; APPLICANT: Bridon, Dominique
; APPLICANT: Ezrin, Alan
; APPLICANT: Milner, Peter
; APPLICANT: Holmes, Darren
; APPLICANT: Thibaudeau, Karen
; TITLE OF INVENTION: PROTECTION OF ENDOGENOUS THERAPEUTIC PEPTIDES FROM
; TITLE OF INVENTION: PEPTIDASE ACTIVITY THROUGH CONJUGATION TO BLOOD
; TITLE OF INVENTION: COMPONENTS
; FILE REFERENCE: 2110
; CURRENT APPLICATION NUMBER: US/09/657,276
; CURRENT FILING DATE: 2000-09-07
; PRIOR APPLICATION NUMBER: 60/134,406
; PRIOR FILING DATE: 1999-05-17
; PRIOR APPLICATION NUMBER: 60/153,406
; PRIOR FILING DATE: 1999-09-10
; PRIOR APPLICATION NUMBER: 60/159,783
; PRIOR FILING DATE: 1999-10-18
; NUMBER OF SEQ ID NOS: 1617
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 919
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-09-657-276-919

Query Match 100.0%; Score 86; DB 20; Length 17;
Best Local Similarity 100.0%; Pred. No. 7.5e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGGFTGARKSARKLANQ 17
| | | | | | | | | | | | | | | |
Db 1 FGGFTGARKSARKLANQ 17

RESULT 13

US-09-657-276-926

```
; Sequence 926, Application US/09657276
; GENERAL INFORMATION:
; APPLICANT: Conjuchem, Inc.
; APPLICANT: Bridon, Dominique
; APPLICANT: Ezrin, Alan
; APPLICANT: Milner, Peter
; APPLICANT: Holmes, Darren
; APPLICANT: Thibaudeau, Karen
; TITLE OF INVENTION: PROTECTION OF ENDOGENOUS THERAPEUTIC PEPTIDES FROM
; TITLE OF INVENTION: PEPTIDASE ACTIVITY THROUGH CONJUGATION TO BLOOD
; TITLE OF INVENTION: COMPONENTS
; FILE REFERENCE: 2110
; CURRENT APPLICATION NUMBER: US/09/657,276
; CURRENT FILING DATE: 2000-09-07
; PRIOR APPLICATION NUMBER: 60/134,406
; PRIOR FILING DATE: 1999-05-17
; PRIOR APPLICATION NUMBER: 60/153,406
; PRIOR FILING DATE: 1999-09-10
; PRIOR APPLICATION NUMBER: 60/159,783
; PRIOR FILING DATE: 1999-10-18
; NUMBER OF SEQ ID NOS: 1617
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 926
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
```

US-09-657-276-926

```
Query Match      100.0%; Score 86; DB 20; Length 17;
Best Local Similarity 100.0%; Pred. No. 7.5e-07;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 FGGFTGARKSARKLANQ 17
         |||||
Db      1 FGGFTGARKSARKLANQ 17
```

RESULT 14

US-60-160-202-4306

```
; Sequence 4306, Application US/60160202
; GENERAL INFORMATION:
; APPLICANT: BONAZZI, VIVIEN
; TITLE OF INVENTION: ISOLATED HUMAN GPCR PROTEIN, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN GPCR PROTEINS AND USES
THEREOF
; FILE REFERENCE: CL000114
; CURRENT APPLICATION NUMBER: US/60/160,202
; CURRENT FILING DATE: 1999-10-19
; NUMBER OF SEQ ID NOS: 4392
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4306
```

; LENGTH: 134
; TYPE: PRT
; ORGANISM: HUMAN
US-60-160-202-4306

Query Match 100.0%; Score 86; DB 24; Length 134;
Best Local Similarity 100.0%; Pred. No. 7.5e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGGFTGARKSARKLANQ 17
|||
Db 88 FGGFTGARKSARKLANQ 104

RESULT 15
US-60-160-203-6127
; Sequence 6127, Application US/60160203
; GENERAL INFORMATION:
; APPLICANT: BONAZZI, VIVIEN
; TITLE OF INVENTION: ISOLATED HUMAN SECRETED PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN SECRETED PROTEINS
AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: CL000116
; CURRENT APPLICATION NUMBER: US/60/160,203
; CURRENT FILING DATE: 1999-10-19
; NUMBER OF SEQ ID NOS: 6374
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6127
; LENGTH: 134
; TYPE: PRT
; ORGANISM: HUMAN
US-60-160-203-6127

Query Match 100.0%; Score 86; DB 24; Length 134;
Best Local Similarity 100.0%; Pred. No. 7.5e-06;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FGGFTGARKSARKLANQ 17
|||
Db 88 FGGFTGARKSARKLANQ 104

Search completed: November 16, 2001, 15:49:20
Job time: 307 sec

09011797 Interference Results

SEQ ID NO: 1

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	932	100.0	932	14	US-09-011-797-1	Sequence 1, Appli
2	546.4	58.6	1209	50	US-60-172-373-1728	Sequence 1728, Ap
3	323.6	34.7	554	20	US-09-534-843-5886	Sequence 5886, Ap
4	310	33.3	745	1	PCT-US01-18569-1506	Sequence 1506, Ap
5	308.6	33.1	644	49	US-60-160-202-2110	Sequence 2110, Ap
6	308.6	33.1	644	49	US-60-160-203-2940	Sequence 2940, Ap
7	308.6	33.1	645	49	US-60-160-202-1762	Sequence 1762, Ap
8	308.6	33.1	645	49	US-60-160-203-2171	Sequence 2171, Ap
9	277	29.7	423	18	US-09-431-517-13593	Sequence 13593, A
10	270.8	29.1	522	20	US-09-534-843-5889	Sequence 5889, Ap
11	267.6	28.7	589	21	US-09-540-229-112193	Sequence 112193,
12	267.6	28.7	589	26	US-09-668-337-251	Sequence 251, App
13	267.6	28.7	589	49	US-60-168-197-252	Sequence 252, App
14	264.2	28.3	462	16	US-09-248-797-6959	Sequence 6959, Ap
15	263.2	28.2	521	20	US-09-534-843-5888	Sequence 5888, Ap
16	240.4	25.8	503	20	US-09-534-843-5887	Sequence 5887, Ap
17	226.8	24.3	456	19	US-09-528-409-49212	Sequence 49212, A
18	226.8	24.3	456	32	US-09-933-524-49212	Sequence 49212, A
19	202	21.7	327	29	US-09-758-467-119	Sequence 119, App
20	197.8	21.2	492	16	US-09-235-076-2514	Sequence 2514, Ap
21	197.8	21.2	492	16	US-09-248-797-10027	Sequence 10027, A
22	197.8	21.2	492	17	US-09-332-782-2514	Sequence 2514, Ap
23	197.8	21.2	492	29	US-09-737-223-2514	Sequence 2514, Ap
24	194.2	20.8	471	16	US-09-287-618-35257	Sequence 35257, A
25	193.6	20.8	406	19	US-09-528-409-49211	Sequence 49211, A
26	193.6	20.8	406	32	US-09-933-524-49211	Sequence 49211, A
27	186.6	20.0	386	17	US-09-359-067-45870	Sequence 45870, A
28	172.6	18.5	411	16	US-09-289-768-1144	Sequence 1144, Ap
c 29	169.4	18.2	674	49	US-60-162-356-32	Sequence 32, Appl
c 30	169.4	18.2	674	49	US-60-163-123-70	Sequence 70, Appl
c 31	169.4	18.2	674	49	US-60-163-232-93	Sequence 93, Appl
c 32	168.4	18.1	673	49	US-60-162-242-380	Sequence 380, App
c 33	168.4	18.1	673	49	US-60-162-243-290	Sequence 290, App
c 34	168.4	18.1	673	49	US-60-162-356-550	Sequence 550, App
35	150.4	16.1	327	8	US-08-401-791A-13192	Sequence 13192, A
36	150.4	16.1	327	8	US-08-401-791B-13192	Sequence 13192, A
37	149.2	16.0	235	18	US-09-440-302-505	Sequence 505, App
38	133.4	14.3	499	1	PCT-US99-18054-50	Sequence 50, Appl
39	133.4	14.3	499	16	US-09-244-694-50	Sequence 50, Appl
40	127.6	13.7	186	3	US-07-925-932-490	Sequence 490, App
41	109.4	11.7	240	21	US-09-540-766-52725	Sequence 52725, A
42	99	10.6	143	29	US-09-758-467-26	Sequence 26, Appl
43	95.2	10.2	245	16	US-09-250-152-2974	Sequence 2974, Ap
44	95.2	10.2	301	15	US-09-145-501-1321	Sequence 1321, Ap
45	95.2	10.2	301	39	US-60-069-691-1321	Sequence 1321, Ap

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
c 1	164.6	17.7	305	5	US-09-954-456-1045	Sequence 1045, Ap
c 2	37.8	4.1	504	6	US-60-325-448-456	Sequence 456, App
c 3	35.6	3.8	2938	5	US-09-710-481-3	Sequence 3, Appli
4	35	3.8	343	5	US-09-388-906A-13517	Sequence 13517, A
5	35	3.8	3096	5	US-09-685-791-9	Sequence 9, Appli
6	35	3.8	3949	5	US-09-685-791-7	Sequence 7, Appli
c 7	34.8	3.7	2107	5	US-09-981-353-49	Sequence 49, Appl
c 8	34.6	3.7	436	5	US-09-922-340-7747	Sequence 7747, Ap

c	9	34.6	3.7	684	5	US-09-815-242-4034	Sequence 4034, Ap
c	10	34.4	3.7	396	5	US-09-970-966-42	Sequence 42, Appl
	11	34.4	3.7	437	5	US-09-850-716A-74	Sequence 74, Appl
	12	34.2	3.7	480	5	US-09-922-340-11753	Sequence 11753, A
c	13	34	3.6	473	5	US-09-922-340-7749	Sequence 7749, Ap
c	14	34	3.6	475	5	US-09-922-340-7748	Sequence 7748, Ap
c	15	33.8	3.6	3648	5	US-09-800-187-5	Sequence 5, Appli
c	16	33.6	3.6	494	5	US-09-850-716A-54	Sequence 54, Appl
	17	33.4	3.6	316	5	US-09-388-906A-21091	Sequence 21091, A
	18	33.4	3.6	455	5	US-09-922-340-11897	Sequence 11897, A
c	19	33.2	3.6	211	5	US-09-388-906A-16059	Sequence 16059, A
c	20	33.2	3.6	300	5	US-09-388-906A-22896	Sequence 22896, A
	21	33.2	3.6	607	6	US-60-325-448-3446	Sequence 3446, Ap
c	22	33	3.5	624	5	US-09-961-619-17	Sequence 17, Appl
	23	33	3.5	720	6	US-60-325-448-4174	Sequence 4174, Ap
c	24	32.8	3.5	2365	5	US-09-978-189-131	Sequence 131, App
c	25	32.8	3.5	2365	5	US-09-978-192-131	Sequence 131, App
c	26	32.8	3.5	2365	5	US-09-978-697-131	Sequence 131, App
c	27	32.8	3.5	2365	5	US-09-978-824-131	Sequence 131, App
c	28	32.4	3.5	237	5	US-09-815-242-4157	Sequence 4157, Ap
	29	32.4	3.5	264	5	US-09-815-242-1204	Sequence 1204, Ap
c	30	32.4	3.5	425	5	US-09-834-975-451	Sequence 451, App
	31	32.4	3.5	6420	5	US-09-937-837-2	Sequence 2, Appli
c	32	32.2	3.5	401	5	US-09-388-906A-22533	Sequence 22533, A
	33	32.2	3.5	7869	5	US-09-954-456-1921	Sequence 1921, Ap
	34	32.2	3.5	48841	5	US-09-844-653-32	Sequence 32, Appl
c	35	32	3.4	1025	5	US-09-969-730-72	Sequence 72, Appl
	36	32	3.4	1065	5	US-09-969-730-105	Sequence 105, App
	37	31.8	3.4	2567	6	US-60-325-448-258	Sequence 258, App
	38	31.8	3.4	88421	5	US-09-976-059-1	Sequence 1, Appli
	39	31.6	3.4	308	5	US-09-922-340-7098	Sequence 7098, Ap
c	40	31.6	3.4	434	5	US-09-954-456-2098	Sequence 2098, Ap
	41	31.6	3.4	990	5	US-09-815-242-7714	Sequence 7714, Ap
	42	31.6	3.4	1827	5	US-09-778-927A-1	Sequence 1, Appli
	43	31.6	3.4	2182	5	US-09-778-927A-2	Sequence 2, Appli
c	44	31.4	3.4	611	5	US-09-871-161-393	Sequence 393, App
	45	31.4	3.4	2173	5	US-09-525-998-14	Sequence 14, Appl

SEQ ID NO: 2

SUMMARIES

Result No.	Score	% Match	Query Length	DB	ID	Description
1	86	100.0	17	9	US-08-514-451-5	Sequence 5, Appli
2	86	100.0	17	9	US-08-553-058A-5	Sequence 5, Appli
3	86	100.0	17	12	US-08-868-355-1	Sequence 1, Appli
4	86	100.0	17	13	US-08-927-328-1	Sequence 1, Appli
5	86	100.0	17	14	US-09-011-797-2	Sequence 2, Appli
6	86	100.0	17	14	US-09-048-916-5	Sequence 5, Appli
7	86	100.0	17	14	US-09-048-916-5	Sequence 5, Appli
8	86	100.0	17	14	US-09-048-916B-5	Sequence 5, Appli
9	86	100.0	17	15	US-09-114-620-1	Sequence 1, Appli
10	86	100.0	17	15	US-09-170-919-5	Sequence 5, Appli
11	86	100.0	17	17	US-09-341-590-39	Sequence 39, Appl
12	86	100.0	17	20	US-09-657-276-919	Sequence 919, App
13	86	100.0	17	20	US-09-657-276-926	Sequence 926, App
14	86	100.0	134	24	US-60-160-202-4306	Sequence 4306, Ap
15	86	100.0	134	24	US-60-160-203-6127	Sequence 6127, Ap
16	86	100.0	139	24	US-60-160-203-5358	Sequence 5358, Ap
17	86	100.0	155	24	US-60-160-202-3958	Sequence 3958, Ap
18	86	100.0	188	1	PCT-US01-18569-3681	Sequence 3681, Ap
19	83	96.5	17	13	US-08-927-328-4	Sequence 4, Appli
20	83	96.5	17	13	US-08-927-328-6	Sequence 6, Appli
21	83	96.5	17	13	US-08-927-328-8	Sequence 8, Appli
22	81	94.2	17	9	US-08-514-451-6	Sequence 6, Appli
23	81	94.2	17	9	US-08-553-058A-6	Sequence 6, Appli
24	81	94.2	17	14	US-09-048-916-6	Sequence 6, Appli

25	81	94.2	17	14	US-09-048-916-6	Sequence 6, Appli
26	81	94.2	17	14	US-09-048-916B-6	Sequence 6, Appli
27	81	94.2	17	15	US-09-114-620-4	Sequence 4, Appli
28	81	94.2	17	15	US-09-170-919-6	Sequence 6, Appli
29	80	93.0	16	13	US-08-927-328-3	Sequence 3, Appli
30	80	93.0	17	13	US-08-927-328-7	Sequence 7, Appli
31	74	86.0	17	13	US-08-927-328-5	Sequence 5, Appli
32	68	79.1	15	13	US-08-927-328-20	Sequence 20, Appl
33	68	79.1	16	13	US-08-927-328-17	Sequence 17, Appl
34	64	74.4	17	13	US-08-927-328-13	Sequence 13, Appl
35	63	73.3	14	13	US-08-927-328-30	Sequence 30, Appl
36	62	72.1	15	13	US-08-927-328-12	Sequence 12, Appl
37	62	72.1	16	13	US-08-927-328-11	Sequence 11, Appl
38	62	72.1	16	13	US-08-927-328-15	Sequence 15, Appl
39	61	70.9	16	13	US-08-927-328-19	Sequence 19, Appl
40	57	66.3	15	13	US-08-927-328-9	Sequence 9, Appli
41	57	66.3	15	13	US-08-927-328-14	Sequence 14, Appl
42	57	66.3	16	13	US-08-927-328-10	Sequence 10, Appl
43	57	66.3	16	13	US-08-927-328-16	Sequence 16, Appl
44	57	66.3	16	13	US-08-927-328-18	Sequence 18, Appl
45	44.5	51.7	319	15	US-09-198-452A-173	Sequence 173, App

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	86	100.0	17	5	US-09-929-986-1	Sequence 1, Appli
2	39	45.3	232	5	US-09-897-516-8334	Sequence 8334, Ap
3	38	44.2	225	5	US-09-897-516-4492	Sequence 4492, Ap
4	38	44.2	296	5	US-09-815-242-13677	Sequence 13677, A
5	38	44.2	454	5	US-09-897-516-7417	Sequence 7417, Ap
6	37	43.0	256	5	US-09-815-242-11383	Sequence 11383, A
7	37	43.0	416	5	US-09-897-516-4952	Sequence 4952, Ap
8	36	41.9	166	5	US-09-815-242-5181	Sequence 5181, Ap
9	36	41.9	566	5	US-09-897-516-6975	Sequence 6975, Ap
10	36	41.9	933	5	US-09-815-242-11817	Sequence 11817, A
11	36	41.9	1300	5	US-09-896-923-3	Sequence 3, Appli
12	35	40.7	230	5	US-09-815-242-10652	Sequence 10652, A
13	35	40.7	266	5	US-09-815-242-5346	Sequence 5346, Ap
14	35	40.7	266	5	US-09-815-242-12340	Sequence 12340, A
15	35	40.7	266	5	US-09-815-242-12989	Sequence 12989, A
16	34	39.5	87	5	US-09-815-242-11763	Sequence 11763, A
17	34	39.5	119	5	US-09-897-516-7459	Sequence 7459, Ap
18	34	39.5	163	5	US-09-615-846A-16	Sequence 16, Appl
19	34	39.5	332	5	US-09-815-242-10156	Sequence 10156, A
20	34	39.5	398	5	US-09-815-242-10390	Sequence 10390, A
21	34	39.5	398	5	US-09-897-516-6927	Sequence 6927, Ap
22	34	39.5	633	5	US-09-897-516-5052	Sequence 5052, Ap
23	34	39.5	741	1	PCT-US01-20545-13	Sequence 13, Appl
24	34	39.5	763	5	US-09-815-242-13643	Sequence 13643, A
25	33.5	39.0	99	5	US-09-795-668-35	Sequence 35, Appl
26	33.5	39.0	118	5	US-09-815-242-13222	Sequence 13222, A
27	33.5	39.0	125	5	US-09-795-668-30	Sequence 30, Appl
28	33.5	39.0	127	1	PCT-US01-31269-10	Sequence 10, Appl
29	33.5	39.0	226	5	US-09-954-314-4	Sequence 4, Appli
30	33.5	39.0	344	5	US-09-795-668-38	Sequence 38, Appl
31	33.5	39.0	456	5	US-09-795-668-17	Sequence 17, Appl
32	33.5	39.0	632	5	US-09-795-668-16	Sequence 16, Appl
33	33	38.4	130	5	US-09-815-242-5552	Sequence 5552, Ap
34	33	38.4	131	5	US-09-815-242-11426	Sequence 11426, A
35	33	38.4	132	5	US-09-815-242-12238	Sequence 12238, A
36	33	38.4	208	5	US-09-815-242-11425	Sequence 11425, A
37	33	38.4	280	5	US-09-815-242-5745	Sequence 5745, Ap
38	33	38.4	283	5	US-09-815-242-11268	Sequence 11268, A
39	33	38.4	296	5	US-09-815-242-13353	Sequence 13353, A
40	33	38.4	344	5	US-09-646-673A-177	Sequence 177, App
41	33	38.4	365	5	US-09-815-242-5593	Sequence 5593, Ap
42	33	38.4	365	5	US-09-815-242-12414	Sequence 12414, A

43	33	38.4	365	5	US-09-815-242-13025	Sequence 13025, A
44	33	38.4	670	5	US-09-468-646A-29	Sequence 29, Appl
45	33	38.4	702	5	US-09-897-516-7546	Sequence 7546, Ap

SEQ ID NO: 3

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	82	100.0	17	14	US-09-011-797-3	Sequence 3, Appli
2	82	100.0	17	15	US-09-114-620-2 <i>ABW</i>	Sequence 2, Appli
3	82	100.0	134	24	US-60-160-202-4306	Sequence 4306, Ap
4	82	100.0	134	24	US-60-160-203-6127	Sequence 6127, Ap
5	82	100.0	139	24	US-60-160-203-5358	Sequence 5358, Ap
6	82	100.0	155	24	US-60-160-202-3958	Sequence 3958, Ap
7	76	92.7	188	1	PCT-US01-18569-3681	Sequence 3681, Ap
8	42	51.2	346	24	US-60-324-631-1830	Sequence 1830, Ap
9	40.5	49.4	2059	24	US-60-173-464-29693	Sequence 29693, A
10	40.5	49.4	2060	24	US-60-191-637-38941	Sequence 38941, A
11	40.5	49.4	2060	24	US-60-191-681-30175	Sequence 30175, A
12	39	47.6	62	23	US-09-950-083-3580	Sequence 3580, Ap
13	39	47.6	63	1	PCT-US00-06828-84	Sequence 84, Appl
14	39	47.6	159	16	US-09-270-767-41900	Sequence 41900, A
15	38.5	47.0	160	21	US-09-733-089-14467	Sequence 14467, A
16	38.5	47.0	160	22	US-09-816-660-14467	Sequence 14467, A
17	38	46.3	138	1	PCT-US01-08631-38669	Sequence 38669, A
18	38	46.3	236	19	US-09-540-236-3493	Sequence 3493, Ap
19	38	46.3	236	24	US-60-128-476-4429	Sequence 4429, Ap
20	38	46.3	327	16	US-09-248-796-16639	Sequence 16639, A
21	38	46.3	341	1	PCT-US01-08631-38673	Sequence 38673, A
22	38	46.3	379	1	PCT-US01-08631-50988	Sequence 50988, A
23	38	46.3	384	1	PCT-US01-08631-38671	Sequence 38671, A
24	38	46.3	414	1	PCT-US01-16450-2318	Sequence 2318, Ap
25	38	46.3	414	1	PCT-US01-16450A-2318	Sequence 2318, Ap
26	38	46.3	441	18	US-09-489-039A-10210	Sequence 10210, A
27	38	46.3	494	17	US-09-328-352-5284	Sequence 5284, Ap
28	38	46.3	497	22	US-09-805-020-37	Sequence 37, Appl
29	38	46.3	543	1	PCT-US01-08631-53304	Sequence 53304, A
30	38	46.3	731	18	US-09-494-810-7	Sequence 7, Appli
31	38	46.3	731	18	US-09-494-810A-7	Sequence 7, Appli
32	38	46.3	741	22	US-09-833-790-432	Sequence 432, App
33	38	46.3	757	1	PCT-US01-08631-38674	Sequence 38674, A
34	37	45.1	24	21	US-09-724-059-413838	Sequence 413838,
35	37	45.1	24	21	US-09-724-059-414216	Sequence 414216,
36	37	45.1	24	21	US-09-724-059-421715	Sequence 421715,
37	37	45.1	24	21	US-09-724-059-421967	Sequence 421967,
38	37	45.1	24	21	US-09-724-059-446796	Sequence 446796,
39	37	45.1	24	21	US-09-724-059-449316	Sequence 449316,
40	37	45.1	64	16	US-09-248-796-27227	Sequence 27227, A
41	37	45.1	70	24	US-60-186-662-622	Sequence 622, App
42	37	45.1	97	1	PCT-US01-14827-12232	Sequence 12232, A
43	37	45.1	119	18	US-09-474-434-1050	Sequence 1050, Ap
44	37	45.1	119	24	US-60-173-686-1050	Sequence 1050, Ap
45	37	45.1	123	15	US-09-134-001C-3630	Sequence 3630, Ap

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	36	43.9	102	5	US-09-815-242-5417	Sequence 5417, Ap
2	36	43.9	102	5	US-09-815-242-12559	Sequence 12559, A
3	36	43.9	102	5	US-09-815-242-12960	Sequence 12960, A
4	35	42.7	375	5	US-09-815-242-11878	Sequence 11878, A

5	34	41.5	129	5	US-09-461-436-327	Sequence 327, App
6	34	41.5	362	5	US-09-461-436-374	Sequence 374, App
7	34	41.5	362	5	US-09-779-679-28	Sequence 28, Appl
8	34	41.5	555	5	US-09-978-189-109	Sequence 109, App
9	34	41.5	555	5	US-09-978-192-109	Sequence 109, App
10	34	41.5	555	5	US-09-978-697-109	Sequence 109, App
11	34	41.5	555	5	US-09-978-824-109	Sequence 109, App
12	33	40.2	315	5	US-09-897-516-5136	Sequence 5136, Ap
13	33	40.2	371	5	US-09-897-516-5976	Sequence 5976, Ap
14	33	40.2	578	5	US-09-815-242-12501	Sequence 12501, A
15	33	40.2	689	5	US-09-897-516-6629	Sequence 6629, Ap
16	32	39.0	376	5	US-09-897-516-4587	Sequence 4587, Ap
17	32	39.0	439	5	US-09-815-242-13917	Sequence 13917, A
18	32	39.0	1905	5	US-09-897-516-6551	Sequence 6551, Ap
19	31	37.8	439	5	US-09-815-242-10063	Sequence 10063, A
20	31	37.8	465	5	US-09-897-516-6575	Sequence 6575, Ap
21	31	37.8	497	5	US-09-981-353-105	Sequence 105, App
22	31	37.8	651	5	US-09-897-516-7732	Sequence 7732, Ap
23	31	37.8	657	5	US-09-815-242-13436	Sequence 13436, A
24	31	37.8	686	5	US-09-897-516-6833	Sequence 6833, Ap
25	31	37.8	975	5	US-09-897-516-7681	Sequence 7681, Ap
26	31	37.8	1084	5	US-09-800-187-2	Sequence 2, Appli
27	30	36.6	142	5	US-09-897-516-6053	Sequence 6053, Ap
28	30	36.6	180	5	US-09-815-242-5657	Sequence 5657, Ap
29	30	36.6	185	5	US-09-815-242-12269	Sequence 12269, A
30	30	36.6	224	5	US-09-897-516-8168	Sequence 8168, Ap
31	30	36.6	271	5	US-09-897-516-4443	Sequence 4443, Ap
32	30	36.6	290	5	US-09-815-242-13873	Sequence 13873, A
33	30	36.6	362	5	US-09-897-516-6719	Sequence 6719, Ap
34	30	36.6	441	5	US-09-897-516-7789	Sequence 7789, Ap
35	30	36.6	446	5	US-09-897-516-7790	Sequence 7790, Ap
36	30	36.6	531	5	US-09-897-516-7946	Sequence 7946, Ap
37	30	36.6	652	5	US-09-815-242-13317	Sequence 13317, A
38	30	36.6	652	5	US-09-815-242-13673	Sequence 13673, A
39	30	36.6	777	5	US-09-815-242-4894	Sequence 4894, Ap
40	30	36.6	871	5	US-09-815-242-5274	Sequence 5274, Ap
41	30	36.6	872	5	US-09-815-242-12333	Sequence 12333, A
42	30	36.6	914	5	US-09-815-242-10897	Sequence 10897, A
43	30	36.6	1089	5	US-09-769-987-2	Sequence 2, Appli
44	29.5	36.0	310	5	US-09-886-055-153	Sequence 153, App
45	29.5	36.0	610	5	US-09-897-516-8116	Sequence 8116, Ap

SEQ ID NO: 4

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	44	100.0	8	14	US-09-011-797-4	Sequence 4, Appli
2	44	100.0	8	15	US-09-114-620-3	Sequence 3, Appli
3	44	100.0	134	24	US-60-160-202-4306	Sequence 4306, Ap
4	44	100.0	134	24	US-60-160-203-6127	Sequence 6127, Ap
5	44	100.0	139	24	US-60-160-203-5358	Sequence 5358, Ap
6	44	100.0	155	24	US-60-160-202-3958	Sequence 3958, Ap
7	35	79.5	170	16	US-09-248-796-15906	Sequence 15906, A
8	35	79.5	377	16	US-09-270-767-34332	Sequence 34332, A
9	35	79.5	377	16	US-09-270-767-49549	Sequence 49549, A
10	35	79.5	377	16	US-09-270-849B-180627	Sequence 180627,
11	35	79.5	559	24	US-60-248-505-822	Sequence 822, App
12	35	79.5	601	24	US-60-248-505-1284	Sequence 1284, Ap
13	35	79.5	635	16	US-09-252-991A-31646	Sequence 31646, A
14	35	79.5	1426	24	US-60-191-637-40785	Sequence 40785, A
15	35	79.5	1426	24	US-60-191-700-720	Sequence 720, App
16	35	79.5	1542	24	US-60-167-324-686	Sequence 686, App
17	35	79.5	1542	24	US-60-173-386-656	Sequence 656, App
18	35	79.5	1542	24	US-60-175-871-737	Sequence 737, App
19	35	79.5	1542	24	US-60-184-775-671	Sequence 671, App
20	34	77.3	99	1	PCT-US01-08631-50558	Sequence 50558, A

21	34	77.3	152	16	US-09-270-767-38731	Sequence 38731, A
22	34	77.3	152	16	US-09-270-767-53948	Sequence 53948, A
23	34	77.3	152	16	US-09-270-849B-189754	Sequence 189754, A
24	34	77.3	156	1	PCT-US01-08631-50559	Sequence 50559, A
25	34	77.3	224	15	US-09-149-476-370	Sequence 370, App
26	34	77.3	224	22	US-09-809-391-370	Sequence 370, App
27	34	77.3	224	22	US-09-882-171-370	Sequence 370, App
28	34	77.3	230	22	US-09-855-768-673	Sequence 673, App
29	34	77.3	349	24	US-60-191-637-30778	Sequence 30778, A
30	34	77.3	349	24	US-60-191-681-24517	Sequence 24517, A
31	34	77.3	450	24	US-60-173-464-24182	Sequence 24182, A
32	34	77.3	451	24	US-60-175-691-147	Sequence 147, App
33	34	77.3	460	24	US-60-215-161-7857	Sequence 7857, Ap
34	34	77.3	492	20	US-09-618-893-147	Sequence 147, App
35	34	77.3	584	1	PCT-US01-08631-50562	Sequence 50562, A
36	34	77.3	638	1	PCT-US01-08631-56551	Sequence 56551, A
37	33	75.0	120	16	US-09-248-796-17350	Sequence 17350, A
38	33	75.0	210	17	US-09-328-352-4351	Sequence 4351, Ap
39	33	75.0	251	13	US-08-993-002A-8279	Sequence 8279, Ap
40	33	75.0	260	1	PCT-US01-19110-1039	Sequence 1039, Ap
41	33	75.0	260	22	US-09-880-748-1039	Sequence 1039, Ap
42	33	75.0	279	10	US-08-625-811-1714	Sequence 1714, Ap
43	33	75.0	279	13	US-08-993-002A-8280	Sequence 8280, Ap
44	33	75.0	306	16	US-09-252-691-6233	Sequence 6233, Ap
45	33	75.0	306	16	US-09-252-691C-6233	Sequence 6233, Ap

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	34	77.3	460	5	US-09-897-516-7857	Sequence 7857, Ap
2	33	75.0	1395	5	US-09-800-198-56	Sequence 56, Appl
3	31	70.5	148	5	US-09-615-846A-17	Sequence 17, Appl
4	31	70.5	314	5	US-09-725-945-6	Sequence 6, Appli
5	31	70.5	1041	5	US-09-978-189-498	Sequence 498, App
6	31	70.5	1041	5	US-09-978-192-498	Sequence 498, App
7	31	70.5	1041	5	US-09-978-697-498	Sequence 498, App
8	31	70.5	1041	5	US-09-978-824-498	Sequence 498, App
9	30	68.2	745	5	US-09-897-516-7799	Sequence 7799, Ap
10	30	68.2	934	5	US-09-971-490-2	Sequence 2, Appli
11	29	65.9	212	5	US-09-897-516-7312	Sequence 7312, Ap
12	29	65.9	355	5	US-09-609-360C-26	Sequence 26, Appl
13	29	65.9	355	5	US-09-345-473E-26	Sequence 26, Appl
14	29	65.9	554	5	US-09-815-242-12033	Sequence 12033, A
15	28	63.6	151	5	US-09-815-242-11515	Sequence 11515, A
16	28	63.6	200	5	US-09-545-199D-63	Sequence 63, Appl
17	28	63.6	222	5	US-09-897-516-5345	Sequence 5345, Ap
18	28	63.6	242	5	US-09-815-242-10974	Sequence 10974, A
19	28	63.6	244	5	US-09-815-242-10126	Sequence 10126, A
20	28	63.6	334	5	US-09-897-516-6895	Sequence 6895, Ap
21	28	63.6	440	5	US-09-815-242-5131	Sequence 5131, Ap
22	28	63.6	581	5	US-09-897-516-6038	Sequence 6038, Ap
23	28	63.6	613	5	US-09-897-516-5750	Sequence 5750, Ap
24	28	63.6	639	5	US-09-815-242-5390	Sequence 5390, Ap
25	28	63.6	646	5	US-09-815-242-12304	Sequence 12304, A
26	28	63.6	722	5	US-09-897-516-6067	Sequence 6067, Ap
27	28	63.6	734	5	US-09-545-199D-117	Sequence 117, App
28	28	63.6	1114	5	US-09-840-743-14	Sequence 14, Appl
29	27	61.4	75	5	US-09-969-730-139	Sequence 139, App
30	27	61.4	112	4	US-08-859-648-19	Sequence 19, Appl
31	27	61.4	112	4	US-08-859-648-25	Sequence 25, Appl
32	27	61.4	112	4	US-08-859-648-29	Sequence 29, Appl
33	27	61.4	112	4	US-08-859-648-33	Sequence 33, Appl
34	27	61.4	177	5	US-09-938-497-15	Sequence 15, Appl
35	27	61.4	218	5	US-09-897-516-5887	Sequence 5887, Ap
36	27	61.4	238	4	US-08-721-612C-19	Sequence 19, Appl
37	27	61.4	276	5	US-09-897-516-4756	Sequence 4756, Ap
38	27	61.4	277	5	US-09-897-516-7437	Sequence 7437, Ap

39	27	61.4	324	5	US-09-815-242-11345	Sequence 11345, A
40	27	61.4	330	5	US-09-815-242-5293	Sequence 5293, Ap
41	27	61.4	333	5	US-09-815-242-12121	Sequence 12121, A
42	27	61.4	370	5	US-09-815-242-5528	Sequence 5528, Ap
43	27	61.4	370	5	US-09-815-242-12353	Sequence 12353, A
44	27	61.4	476	5	US-09-960-643-2	Sequence 2, Appli
45	27	61.4	636	5	US-09-815-242-5838	Sequence 5838, Ap